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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,044	03/30/2004	Krishnasamy Anandakumar	TI-29999.1	. 7801
23494 7590 01/28/2008 TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999			EXAMINER	
			CHU, WUTCHUNG	
DALLAS, TX	TX 75265		ART UNIT	PAPER NUMBER
			2619	
			NOTIFICATION DATE	DELIVERY MODE
			01/28/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com uspto@dlemail.itg.ti.com

	Application No.	Applicant(s)			
	10/815,044	ANANDAKUMAR ET AL.			
Office Action Summary	Examiner	Art Unit			
	Wutchung Chu	2619			
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a son. period will apply and will expire SIX (6) MON statute, cause the application to become AE	CATION. reply be timely filed VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
status					
1) Responsive to communication(s) filed on	30 March 2004.	•			
2a) This action is FINAL . 2b)	This action is FINAL. 2b) ☐ This action is non-final.				
3) Since this application is in condition for all	· ()				
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-280</u> is/are pending in the appli	cation.				
4a) Of the above claim(s) is/are wit	hdrawn from consideration.				
5) Claim(s) is/are allowed.		•			
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-280</u> are subject to restriction a	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exa	miner.				
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to	o the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	orrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-152.			
riority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docu					
2. Certified copies of the priority docu					
3. Copies of the certified copies of the		received in this National Stage			
application from the International Br					
* See the attached detailed Office action for	a list of the certified copies not	received.			
ttachment(s)		•			
Machiment(s)) Motice of References Cited (PTO-892)					
	4) ☐ Interview S	Summary (PTO-413)			
) Notice of Draftsperson's Patent Drawing Review (PTO-94)) Information Disclosure Statement(s) (PTO/SB/08)	8) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application			

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DETAILED ACTION\

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-181, 230-231, 234-235, 238-239, 249-250, 253-254, 257-258,
 262, 265-266, 269-270, 277-278 drawn to rate and diversity control,
 classified in class 370, subclass 395.21.
 - II. Claims 182-192, 203-214, 215-222, 223-229, 232, 236, 240, 245-8, 251, 255, 259, 263, 267, 271, 275, 279, drawn to linear prediction encoding and packetizing information with a subset in a packet, classified in class 704, subclass 219.
 - III. Claims 193-202, 233, 237, 241-244, 252, 256, 260, 264, 268, 272, 276,280, drawn to reconstruction of packet and parity check, classified in class714, subclass 758.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination Group II and Group III have separate utility such as Group II recites the linear prediction encoding and packetizing information with a subset in a packet. More specifically, Group II recites code-excited linear prediction (CELP) base real-time information encoding, such as

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G.729 encoding, and LPC linear predictive coding, and longterm prediction lag, Fix codebook gain, and adaptive codebook gain.

Group III recites reconstruction of packet and parity check and performing an excitation reconstruction utilizing the packet sequence received, that is distinct from Group I.

Group I recites diversity rate, and rate control, which distinct from Group II & III.

See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper. The inventions are distinct, each from the other because of the following reasons:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wutchung Chu whose telephone number is 571 270 1411. The examiner can normally be reached on Monday - Friday 1000 - 1500EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan D. Orgad can be reached on 571 272 7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WC/

Wutchung Chu

EDAN ORGAD
SUPERVISORY PATENT EXAMINER